

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Adusumilli et al.

Application No: 10/000,154

Filed: 10/23/01

For: Selecting A Security Format
Conversion For Wired And Wireless
Devices

Examiner: Christopher J. Brown

Art Unit: 2134

Commissioner of Patents and Trademarks
Washington, D.C. 20231

DECLARATION PURSUANT TO 37 C.F.R. §1.131

Sir:

We, Koteshwerrao S. Adusumilli and John B. Abjanic, hereby declare that:

1. We are the co-inventors of the above-described patent application and the co-inventors of the subject matter described and claimed therein.

2. We conceived of the invention prior to the August 31, 2001 effective date of U.S. Patent Application 2003/0046532 A1 by Gast (hereinafter "Gast"), and were duly diligent from prior to said date to the filing of the present patent application on October 23, 2001, as evidenced by Appendices A-G.

Appendix A includes a redacted copy of an Intel confidential invention disclosure that demonstrates conception of the invention prior to the to August 31, 2001 effective date of Gast.

Appendix B includes an email from an inventor to the patent agent who drafted the patent application dated August 23, 2001 that demonstrates that the inventor was diligently working to reduce the invention to practice prior to the August 31, 2001 effective date of Gast.

Appendix C includes a list of hours recorded by date by the patent agent that demonstrates diligence in reducing the invention to practice from at least September 4, 2001 through September 18, 2001.

Appendix D includes two emails from an inventor to the patent agent dated September 25, 2001 and September 26, 2001 that demonstrate that the inventor was diligently working on reducing the invention to practice prior to and around these dates.

Appendix E includes a note from the file that a draft of the patent application was mailed to the inventors on October 3, 2001 and a FedEx USA Airbill from the mailing.

It should be noted that after receiving the draft mailed October 3, 2001, the inventors reviewed the draft, and suggested changes. The patent agent received the suggested changes, and modified the patent application based on those suggested changes, as well as made other changes to the patent application.

Appendix F includes a first page of a letter from the patent agent who drafted the patent application to the inventors dated Oct. 12, 2001 enclosing a revised draft of the patent application incorporating changes suggested by the inventors and other changes, and a FedEx report from the mailing.

Appendix G includes a copy of the declaration on file signed by the inventors that demonstrates that the inventors reviewed the patent application on October 15, 2001.

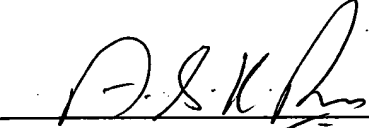
It should be noted that each of the inventors was employed full-time during the period of from before August 31, 2001 to October 23, 2001 and had other tasks to accomplish during this period. Furthermore, it should be noted that the patent agent worked on other matters during the period of from before August 31, 2001 to October 23, 2001 and had other tasks to accomplish during this period.

Accordingly, Appendices B-G demonstrate diligence from prior to the August 31, 2001 effective date of Gast to the filing of the patent application on October 23, 2001.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-identified application or an patent issued therefrom.

Respectfully submitted,

Date 5/24, 2006


Koteswerrao S. Adusumilli

Date _____, 2006

John B. Abjanic

Appendix D includes two emails from an inventor to the patent agent dated September 25, 2001 and September 26, 2001 that demonstrate that the inventor was diligently working on reducing the invention to practice prior to and around these dates.

Appendix E includes a note from the file that a draft of the patent application was mailed to the inventors on October 3, 2001 and a FedEx USA Airbill from the mailing.

It should be noted that after receiving the draft mailed October 3, 2001, the inventors reviewed the draft, and suggested changes. The patent agent received the suggested changes, and modified the patent application based on those suggested changes, as well as made other changes to the patent application.

Appendix F includes a first page of a letter from the patent agent who drafted the patent application to the inventors dated Oct. 12, 2001 enclosing a revised draft of the patent application incorporating changes suggested by the inventors and other changes, and a FedEx report from the mailing.

Appendix G includes a copy of the declaration on file signed by the inventors that demonstrates that the inventors reviewed the patent application on October 15, 2001.

It should be noted that each of the inventors was employed full-time during the period of from before August 31, 2001 to October 23, 2001 and had other tasks to accomplish during this period. Furthermore, it should be noted that the patent agent worked on other matters during the period of from before August 31, 2001 to October 23, 2001 and had other tasks to accomplish during this period.

Accordingly, Appendices B-G demonstrate diligence from prior to the August 31, 2001 effective date of Gast to the filing of the patent application on October 23, 2001.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-identified application or an patent issued therefrom.

Respectfully submitted,

Date _____, 2006 _____

Koteshwerrao S. Adusumilli

Date June 12, 2006 John B. Abjanic

John B. Abjanic

APPENDIX A

P12318
18758

INTEL INVENTION DISCLOSURE

ATTORNEY-CLIENT PRIVILEGED COMMUNICATION

located at <http://legal.intel.com>

DATE: [REDACTED]

It is important to provide accurate and detailed information on this form. The information will be used to evaluate your invention for possible filing as a patent application. When completed and signed, please return this form to the Legal Department at JF3-147. You can submit electronically via e-mail to "invention disclosure submission" if all of the information is electronic, including drawings and supervisor approval. If you have any questions, please call 264-0444.

1. Inventor: Adusumilli Koteshwerrao S
Last Name First Name Middle
Phone 858 391 1761 M/S: EC2-02 Fax # 858 391 4764
Citizenship: India WWID: 10644761 Contractor: YES NO x
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City San Diego State CA Zip 92128 Country USA
*Corporate Level Group (e.g. IAG, NCG, NBG) CPG Division NED
Subdivision _____
Supervisor* David Marlatt WWID 10775532 Phone 858 391 1836 M/S: EC2-02

Inventor: Abianic John B
Last Name First Name Middle
Phone 858-391-1712 M/S: EC2-02 Fax # 858-391-4764
Citizenship: USA WWID: 10775478 Contractor: YES NO x
Inventor E-Mail Address: john.abianic@intel.com
Home Address: 11423 Alamazon Street
City San Diego State CA Zip 92129 Country USA
*Corporate Level Group (e.g. IAG, NCG, NBG) CPG Division NED
Subdivision _____
Supervisor* Jeff Carmichael WWID 10774593 Phone 858 391 1808 M/S: EC2-02

*If you are unsure of this information, please discuss with your manager.

(PROVIDE SAME INFORMATION AS ABOVE FOR EACH ADDITIONAL INVENTOR)

RECEIVED

2. Title of Invention: Security solution for wired and wireless internet in a network appliance

3. What technology/product/process (code name) does it relate to (be specific if you can) wireless internet and security, wireless gateway, wireless access protocol (WAP), network appliance

PATENT DATABASE GROUP
INTEL LEGAL TEAM

4. Include several key words to describe the technology area of the invention in addition to # 3
SSL, WTLS, WAP, XML

5. Stage of development (i.e. % complete, simulations done, test chips if any, etc.): _____

6. (a) Has a description of your invention been, or will it shortly be, published outside Intel:
NO: x YES: _____ If YES, was the manuscript submitted for pre-publication approval? _____

IDENTIFY THE PUBLICATION AND THE DATE PUBLISHED: _____

(b) Has your invention been used/sold or planned to be used/sold by Intel or others? _____

NO: x YES: _____ DATE WAS OR WILL BE SOLD: _____

ATTORNEY-CLIENT PRIVILEGED COMMUNICATION

(c) Does this invention relate to technology that is or will be covered by a SIG (special interest group)/standard/ or specification? _____

NO: _____ YES: x Name of SIG/Standard/Specification: WAP 1.2 spec

(d) If the invention is embodied in a semiconductor device, actual or anticipated date of tapeout? _____

(e) If the invention is software, actual or anticipated date of any beta tests outside Intel _____

7. Was the invention conceived or constructed in collaboration with anyone other than an Intel blue badge employee or in performance of a project involving entities other than Intel, e.g. government, other companies, universities or consortia? NO: x YES: _____ Name of individual or entity: _____

8. Is this invention related to any other invention disclosure that you have recently submitted? If so, please give the title and inventors: _____

1.Components & how it works:

Executive Summary:

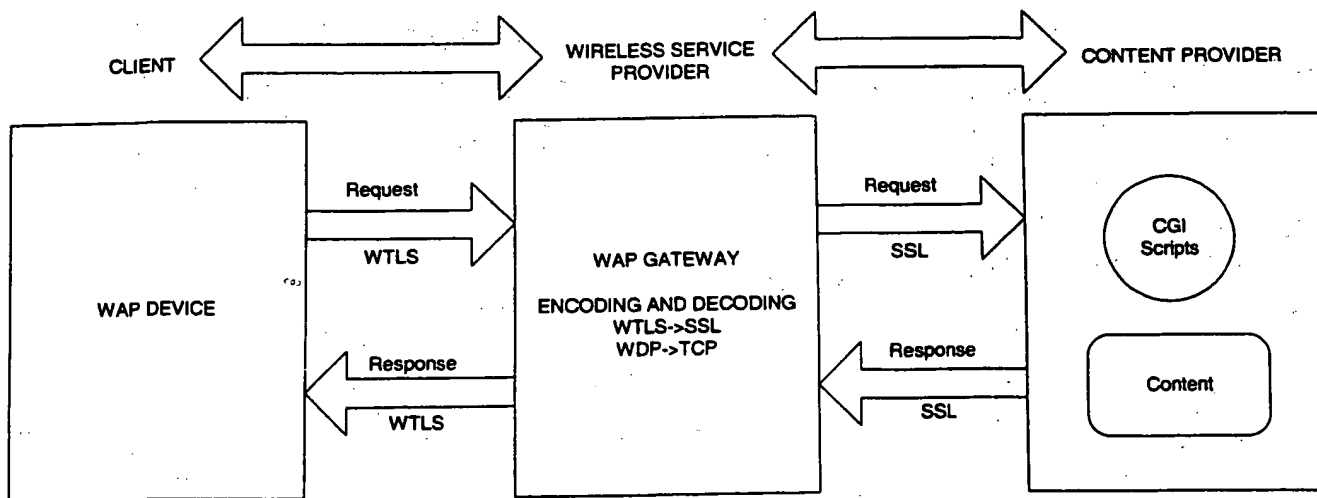
The need for secure, scalable and flexible internet applications and services is increasing rapidly in the wireless world. This poses a demand for end-end secure connections. The Wireless Transport Layer Security (WTLS) which is a part of Wireless Application Protocol (WAP) provides the authentication, privacy and integrity in the world of wireless internet. It is a subset of Transport Layer Security (TLS) which is known as Socket Security Layer (SSL) in the wired internet world. WTLS is a standard developed taking into account factors like datagram connections, low bandwidth, less processing power on the client and cryptography export restrictions. The WTLS standard has been designed to be a good and sufficient security

solution for the wireless internet with the current algorithms that are supported.

The Intel NetStructure family of products are leading edge products in the area of security for the wired internet. They presently handle the SSL functions in both software and hardware. The Intel security accelerator discussed here will handle and accelerate all security related functions for encrypting and decrypting messages for SSL and WTLS in a single box. Once the 3G (third generation) networks become a reality with higher data speeds of more than 10 Mbits/sec, there will be a need for end-end secure applications for both wired and wireless internet. There is a big opportunity for the proposed architecture where the security will be handled by a single security device. The Intel security accelerator will perform SSL or WTLS session set up and handle decryption and encryption on behalf of the computers in the server farm. The content servers will not have to worry about the different security standards that may evolve in the future. It results in improved response times and greater availability of the server resources by offloading the security functions which are processor intensive from the servers.

Present WAP Architecture:

Figure 1:



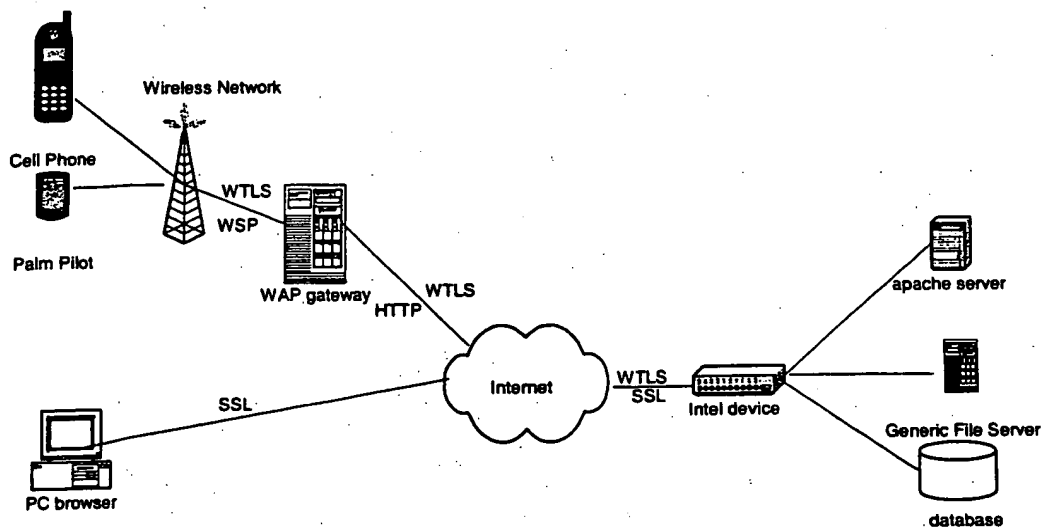
Problem:

Currently SSL is not directly compatible with WTLS. Wireless messages travel through the air to the carrier's transmitter, where they are received and passed to a gateway. The WAP gateway acts as an intermediate broker. It decrypts the WTLS encrypted message from the client to plain text and then

encrypts it using SSL to send it securely over the internet. In the reverse direction, the WAP gateway decrypts the SSL encrypted data stream coming from the web server and then re-encrypt it using WTLS before passing the data on to the WAP client device. For a brief moment, the message sits unencrypted inside the gateway, creating a security vulnerability. The data is unprotected inside the memory of the WAP gateway and is controlled by the third party wireless service provider. For application such as accessing the bank accounts online using WAP devices or placing stock orders, the content providers would treat this as a security hole. They would not like to leave the content unprotected even for a split second in the control of third party wireless service providers.

Proposed Architecture:

Figure 2:



In the proposed architecture the WTLS encrypted data is not decrypted at the gateway. It is passed to the content provider untouched and WTLS encrypted till it reaches the final destination. It is decrypted at the Intel security accelerator which handles all the SSL, WTLS, plain and sends plain text to the server. The content provider does not have to worry about handling the different security standards. The advantages of this approach is that the messages will be guaranteed end-end security. The Intel security accelerator will be in the control of the content provider and not the third party WAP service providers. In this model, the gateway detects the WTLS stream and simply lets it pass through. It still handles all the functionalities of a gateway for protocol conversion, decoding and encoding but will not decrypt the WTLS encrypted data. The wireless service provider's gateway would then just be like a router for the encrypted data stream as it is already protected by WTLS and is

finally handled by the Intel security accelerator securely located at the content provider's data center.

The other approach in the modified architecture would be to support both SSL and WTLS on the web servers. Now the present web servers come with SSL support but not WTLS support. So the alternative solutions are to install the software packages for WTLS, install device drivers and different interfacing software for different platforms on the web servers. But there will be a huge performance degradation in a web server if all the SSL/WTLS security functions are handled in it. So the main advantage of Intel security accelerator will be that it is a plug and play solution which accelerates SSL and WTLS functions and just sends plain data to the servers behind it.

The internal architecture and the details of the components of the Intel security accelerator are discussed in section 3.

2. Advantages over what is done now?

Currently SSL is not directly compatible with WTLS. The WAP gateway acts as an intermediate broker. It decrypts the WTLS encrypted message from the client to plain data and then encrypts it using SSL to send it securely over the internet. In the reverse direction, the WAP gateway decrypts the SSL encrypted data stream coming from the web server and then re-encrypt it using WTLS before passing the data on to the WAP device. The data is unprotected inside the memory of the wap gateway for a second and is controlled by the wireless service provider. For application such as accessing the bank accounts online using WAP devices or placing stock quotes, the content providers would treat this as a security hole. They would not like to leave the content unprotected even for a split second in the control of third party wireless service providers.

Presently the only way to provide end to end secure WAP solution is to provide content using a WAP server (which contains the functionalities of both the WAP gateway and a web server). But there are several disadvantages which discourage the WAP content providers from using this approach and is not widely used.

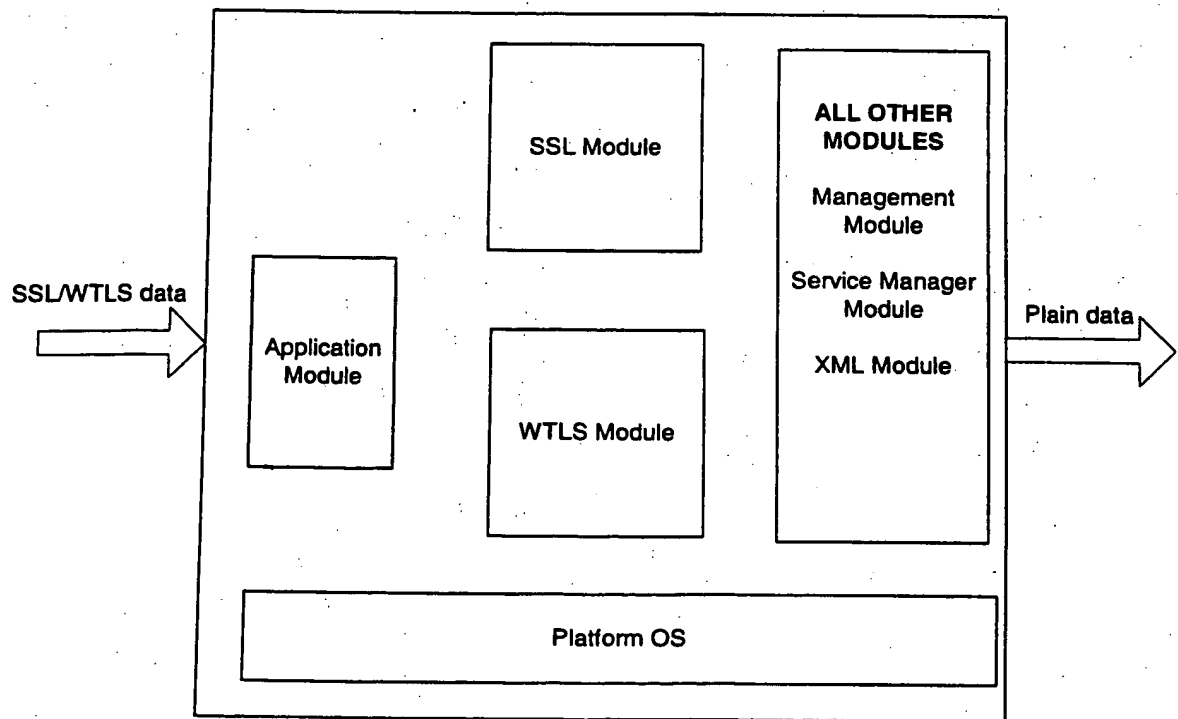
- 1) They have to support all kinds of media like CDMA, GSM etc for WAP, worry about the set up and configuration of the gateway. So they will end up supporting a huge wireless infrastructure which is complex and costly.
- 2) Secondly many phones today allow for the single configuration of a WAP Gateway. Users are forced to choose one, and only one, of these profiles at a time. For example, if the bank's WAP Gateway is configured, but there is a need to reconfigure the phone whenever you want to access a public site.

Advantages:

- 1) The advantage would be the handling of all the security standards for both wireless and wired internet on one device. For example the capability of handling SSL and WTLS encrypted data in the Intel security accelerator in the control of the content providers.
- 2) This will offer a plug and play solution for content service providers who will not have to upgrade their servers for handling WTLS.
- 3) It will offload all the SSL/WTLS functions which are processor intensive from the servers and accelerates those functions using hardware.
- 4) The proposed architecture would eliminate any latency resulting from WTLS to SSL conversion and SSL to WTLS conversion in the WAP gateway.

3. Figure and details

Internal Architecture:



Design :

The design would be based on the building blocks approach. The WTLS module and SSL module will be independent of one other without any interdependencies. They will be designed such that they could be integrated into a switch later

on. They design would allow the other modules of Intel NetStructure 7280 XML Director to be easily integrated in the Intel security accelerator.

Application Module:

The Application module handles the WTLS/SSL handshake on behalf of the servers behind it. The details of WTLS handshake are explained below. The input to the Intel device accelerator will be any SSL encrypted data, WTLS encrypted data or plain data. The application module takes care of the SSL/WTLS handshake. It detects whether the incoming stream is SSL, WTLS or plain text.

SSL Module:

If the incoming data is SSL encrypted, the application module calls the SSL module. The SSL module reads the data and decrypts it to plain text and informs the application when it is done. The SSL module uses a hardware crypto card for SSL functions and hence provides SSL acceleration.

WTLS Module:

The WTLS module is called if the application module detects a WTLS connection. The SSL module reads the data and decrypts it to plain text and informs the application when it is done. The WTLS module can be either be purely software or a combination of software and hardware. **The WTLS encryption and decryption can be accelerated by doing the processor intensive functions in the hardware.**

Other Modules:

Once the application gets the plain text from the SSL or WTLS module it can call up other modules like XML processing module, Load balancing module, XML transformation module to provide other functionalities on the network device. It can be combined with features like content based switching, XML based routing and device detection.

Session set up:

The WTLS/SSL session is set up between the client and the Intel security accelerator which handles the WTLS/SSL handshake. The SSL session set up is similar to the WTLS session set up.

WTLS session set up:

Steps in WTLS handshake between Client and Intel security accelerator :

The WTLS HandShake

| Client | | Intel Security Accelerator |
|-------------------|------|----------------------------|
| ClientHello | --> | |
| | | ServerHello |
| | | ServerKeyExchange |
| | <-- | ServerHelloDone |
| ClientKeyExchange | | |
| Finished | --> | |
| | <-- | Finished |
| Secure Data | <--> | Secure Data |

The diagram shown above illustrates the complete WTLS handshake between the client and the Intel security accelerator. The handshake begins when a client sends a CLIENTHELLO message containing protocol version, a cipher suite and other information describing how the client wishes to encrypt the data. The server responds with a SERVERHELLO message acknowledging the client's request. It then exchanges the Server's public key and sends a SERVERHELLODONE message to the client indicating that the hello-message phase of the handshake is complete. When the client receives the SERVERHELLO message, it exchanges the Client public key and sends a FINISHED message to the server. The server now responds with a FINISHED message. Now the handshake is complete and the client and server may send encrypted application data to each other.

4.Value:

1. It can be used to add new features to the present network accelerator family to handle all the security standards for both wireless and wired internet on one device. For example the capability of handling SSL and WTLS encrypted data in the Intel security accelerator.

2. The security related encryption and decryption for SSL and WTLS are CPU intensive functions. Hence the Intel network accelerator can offload such operations from the servers behind it. These complex functions can be done in the hardware in a much efficient manner to handle more number of connections per second.

3. The security features combined with the device and browser detection capabilities of the XML transformation engine can also help in transforming the same content and personalizing it to a device or browser capabilities and send it securely over the wired and wireless internet.

4. SSL and WTLS modules can be the building blocks for internet security which can be integrated into a web switch.

5. Explain how your invention is novel. If the technology itself is not new, explain what makes it different.

The WTLS standard for the security of wireless internet is not new. The difference is in the implementation architecture of an end-end secure solution for both wired and wireless internet. This approach gives the security control for wireless internet applications in the hands of the content providers instead of the wireless service providers. It has the advantage of handling all wired and wireless internet security functions (both SSL and WTLS) on one network device and keeping the servers secure and inaccessible on the public internet. There are software packages available for SSL/WTLS through internet security vendors. But the approach of doing all the CPU intensive security functions for SSL/WTLS in hardware is new.

6. Identify the closest or most pertinent prior art that you are aware of.

Currently the wireless service providers like sprint, phone.com and verizon wireless handle the security on the gateway. The architecture that is discussed in section 1 is presently used by the wireless service providers.

7. Who is likely to want to use this invention or infringe the patent if one is obtained and how would infringement be detected?

There are many players in the middleware and security accelerators market like F5, Radware, Sun Microsystems, Alteon, Cyber IQ systems etc who only provide SSL security in their network accelerators currently. They may start supporting WTLS for wireless internet in the future along with SSL support.

DATE:

[REDACTED]

SUPERVISOR:

D. H.
[Signature]

BY THIS SIGNING, I (SUPERVISOR) ACKNOWLEDGE THAT I HAVE READ
AND UNDERSTAND THIS
DISCLOSURE, AND RECOMMEND THAT THE HONORARIUM BE PAID

APPENDIX B



"Adusumilli, Kotes" <kotes.h.adusumilli@intel.com>

08/23/01 11:24 AM

To: "Brent_Vecchia@bstz.com" <Brent_Vecchia@bstz.com>
cc:
Subject: RE: Patent Application P12318

Hi Brent,

I was scheduled for a class this week which got cancelled due to low class enrollment. So I was able to put some work into it yesterday. We had a discussion as to how a SSL/WTLS stream can be detected. I have the explanation in the word document attached below. Also i included some explanation about SSL. I was not sure about the hardware acceleration part since there was a lot of new stuff related to that and i was thinking that it could be a another patent by itself(CIP). What do you think? I can talk about that when i call you. Feel free to give me a call if u have any questions at 858 391 1761.

Ragards,
kotes

-----Original Message-----

~~From: "Brent_Vecchia@bstz.com" [mailto:Brent_Vecchia@bstz.com]~~
~~To: "Adusumilli, Kotes" [mailto:kotes.h.adusumilli@intel.com]~~
~~Subject: Patent Application P12318~~

Kotes,

~~It was a pleasure speaking with you yesterday. I have~~
~~the document and will submit it to the Patent Office. I~~
~~will be sure to keep you informed of any developments.~~

~~Thank you for your input. I will be sure to keep you~~
~~informed of any developments.~~

Regards,

Brent

~~Brent_Vecchia@bstz.com~~
~~Patent Attorney~~
~~Blakely, Sokoloff & Taft LLP~~
~~1000 Pennsylvania Avenue, NW~~
~~Washington, DC 20004~~
~~Phone: (202) 638-2000~~
~~FAX: (202) 638-2001~~
~~Internet: http://www.bstz.com~~



~~Work Document~~

APPENDIX C

| Vecchia Recorded Hours: 08/01/01 - 10/31/01 042390.P12318 | | | | | | | | | |
|--|----------|------------|------------------|------------|-------|------------|---|--------------------------|--------------|
| Group No. | Line No. | Timekeeper | Transaction Date | Entry Rate | Hours | Amount | Entry Description Line 1 | Entry Description Line 2 | Matter Code |
| 50876 | 4 | VECCHIA | 8/6/2001 | ██████████ | 8.00 | ██████████ | Preparation of patent application. | | 042390.P1231 |
| 51165 | 1 | VECCHIA | 9/4/2001 | ██████████ | 7.00 | ██████████ | Preparation of patent application | | 042390.P1231 |
| 51165 | 2 | VECCHIA | 8/5/2001 | ██████████ | 7.00 | ██████████ | Preparation of patent application. | | 042390.P1231 |
| 51165 | 3 | VECCHIA | 9/6/2001 | ██████████ | 7.00 | ██████████ | Preparation of patent application. | | 042390.P1231 |
| 51165 | 4 | VECCHIA | 9/7/2001 | ██████████ | 7.00 | ██████████ | Preparation of patent application. | | 042390.P1231 |
| 51165 | 5 | VECCHIA | 9/10/2001 | ██████████ | 7.00 | ██████████ | Preparation of patent application. | | 042390.P1231 |
| 51165 | 6 | VECCHIA | 9/11/2001 | ██████████ | 1.00 | ██████████ | Preparation of patent application. | | 042390.P1231 |
| 51165 | 7 | VECCHIA | 9/12/2001 | ██████████ | 7.00 | ██████████ | Preparation of patent application. | | 042390.P1231 |
| 51165 | 8 | VECCHIA | 9/13/2001 | ██████████ | 7.00 | ██████████ | Preparation of patent application. | | 042390.P1231 |
| 51165 | 9 | VECCHIA | 9/14/2001 | ██████████ | 7.00 | ██████████ | Preparation of patent application. | | 042390.P1231 |
| 51165 | 13 | VECCHIA | 9/17/2001 | ██████████ | 7.00 | ██████████ | Preparation of patent application. | | 042390.P1231 |
| 51165 | 14 | VECCHIA | 9/18/2001 | ██████████ | 7.00 | ██████████ | Preparation of patent application. | | 042390.P1231 |
| 51609 | 27 | VECCHIA | 10/23/2001 | ██████████ | 0.30 | ██████████ | Services rendered in connection with responding to missing parts. | | 042390.P1231 |
| | | | | | 79.30 | ██████████ | | | |

BEST AVAILABLE COPY

APPENDIX D



"Adusumilli, Kotesb"
<kotesb.adusumilli@i
ntel.com>

To: "Brent_Vecchia@bstz.com" <Brent_Vecchia@bstz.com>
cc:
Subject: US Patent Application 42390.P12318

09/25/01 11:50 AM

Hi brent,

I am attaching a word document and a visio diagram of the main algorithm. Feel free to make any modifications to the diagram if you want. I also attached some description of the configuration and some explanation about UDP/WDP in the doc. I am attaching a link to a paper on WTLS (just another reference if u need it).
<http://server49.hypermart.net/ieee-vesit/pubs/papers/wtls.htm>

You can call me if u have any further questions.

Thanks
kotesb



- algo_main.ZIP



- patent1-ref1.ZIP



"Adusumilli, Kotes" <kotes.adusumilli@intel.com>

09/26/01 06:41 PM

To: "Brent_Vecchia@bstz.com" <Brent_Vecchia@bstz.com>
cc:
Subject: RE: US Patent Application 42390.P12318

Hi Brent,

I am sending you a changed figure for diagram 11. Can you take a look at that. I have tried to put the summary of diagram 11 and the whole new concept of redirect URL if the client does not meet the security specification required by the security box. Attached is the figure in the visio and doc format.

Another idea was to have another figure for figure 6 may be 6A and draw a figure for the security system with XML parsing, XML Content routing, XSLT transformation modules. It is important to depict that as this functionality can exist only after the secure data is converted to plain data.

I received the figure and had a few things that I would like to discuss with you. You can call me at your convenience.

Thanks,
kotes

-----Original Message-----

From: Brent_Vecchia@bstz.com [mailto:Brent_Vecchia@bstz.com]
Sent: [REDACTED]
To: Adusumilli, Kotes
Subject: US Patent Application 42390.P12318

[REDACTED]

I hope that you are doing well. I have been working on your patent application for the last few days. I have made quite a bit of progress on the application. I should be able to provide you with a first draft of the application in the next few days.

In what format would you prefer me to send the first draft of the application? Personally I prefer a paper copy, but you may prefer a copy of the figures and electronic text. (The figures are just hand-drawn sketches, so I can't provide them in electronic format.)

By the way, while writing it I came up with a few things that I would like to discuss with you. I'll include the questions in the materials that I send you and then I'll call to make an appointment with you to discuss responses to the questions.

Thanks and Best Regards,

Brent

Brent Vecchia
Patent Agent
Brent Vecchia & Hoffman LLP
http://www.bvhl.com
8055 E. Tufts Ave., Suite 1500
Denver, CO 80231
Phone: (303) 740-1500

APPENDIX E

**Mailed First Draft of application to
inventors on October 3, 2001.**

kam/10-4-01

FedEx[®] USA Airbill

Express

FedEx Tracking Number

8297 2871 8357

1 From Please print and press hard.

Date 10-03-01

Sender's FedEx Account Number

2425-4429-3

Sender's Name

Brent E. Vecchia

Phone (303) 740-1980

Company

BLAKELY SOKOLOFF TAYLOR ZOF

Address

8055 E TUFTS AVE FL 13

City

DENVER

State

CO

ZIP

80237

2 Your Internal Billing Reference

42390P12318

3 To

Recipient's Name

Koteshwerrao Adusumilli

Phone ()

Company

Intel Corporation

Address

13280 Evening Creek Drive

To "HOLD" at FedEx location, print FedEx address.

We cannot deliver to P.O. boxes or P.O. ZIP codes.

M/S EC2-201

City

San Diego

State

CA

ZIP

92128

Peel and Stick FedEx USA Airbill

See back for application instructions.

Questions? Visit our Web site at fedex.com

or call 1-800-Go-FedEx[®] (800) 463-3339.

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0189348036

0215
Santitas (GUP)

4a Express Package Service

☐ Packages up to 150 lbs.
Delivery commitment may be later in some areas.
☐ FedEx Priority Overnight
Next business morning
Next business afternoon
☐ FedEx Standard Overnight
Next business afternoon
☐ FedEx First Overnight
Next business morning
Next business afternoon
Delivery to select locations

☐ FedEx 2Day
Second business day
FedEx Express Saver
Second business day
FedEx Extra Hours
Later drop-off with next business day
Amazon delivery to select locations
NEW FedEx Extra Hours
Later drop-off with next business day
Amazon delivery to select locations

4b Express Freight Service

☐ Packages over 150 lbs.
Delivery commitment may be later in some areas.
☐ FedEx 1Day Freight^{*}
Next business day
Second business day
☐ FedEx 2Day Freight
Second business day
☐ FedEx 3Day Freight
Third business day

* Call for Confirmation.

5 Packaging

☐ FedEx Envelope^{*}
☐ FedEx Pak^{*}
Includes FedEx Small Pak, FedEx Large Pak, and FedEx Saver Pak.
Other Pkg.:
Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling

☐ SATURDAY Delivery
SUNDAY Delivery
RESTRICTIONS: Priority Overnight and FedEx 2Day to select ZIP codes.
Does this shipment contain dangerous goods?
One box must be checked.
No ☐ Yes ☐
As per attached Shipper's Declaration
Dry Ice ☐ Dry Ice UN 1845
Cargot ☐ Aircraft Only
Include FedEx address in Section 3.
HOLD Weekday ☐ HOLD Saturday ☐
at FedEx Location
RESTRICTIONS: Available only for FedEx Priority Overnight and FedEx 2Day to select locations.

7 Payment

Bill to: Enter FedEx Acct. No. or Credit Card No. below.
☐ Sender ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check
FedEx Acct. No. Exp. Date
Credit Card No.

Total Packages Total Weight Total Declared Value
FedEx Use Only

* Your liability is limited to \$100 unless you declare a higher value. See back for details.

8 Release Signature

Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any loss.

0189348036

APPENDIX F

BLAKELY SOKOLOFF TAYLOR & ZAFMAN

A LIMITED LIABILITY PARTNERSHIP INCLUDING LAW CORPORATIONS

TELEPHONE (303) 740-1980

FACSIMILE (303) 740-6962

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INTELLECTUAL PROPERTY LAW

DENVER OFFICE

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PORTLAND/LAKE OSWEGO, OR
SEATTLE, WA

October 12, 2001

Attorney-Client Privileged
Via Federal Express

Koteshwerrao Adusumilli
John Abjanic
Intel Corporation
13280 Evening Creek Drive
M/S EC2-201
San Diego, California 92128

Re: Patent Application for:
"Selecting Security Format Conversion For Wired And Wireless Devices"
File: 42390P12318

Dear Gentlemen:

Enclosed is a copy of the above-referenced patent application with drawings, a declaration, and an assignment. If you find that the application is ready for filing in the United States Patent and Trademark Office please execute the declaration and assignment as described below and return in the enclosed envelope.

I. APPLICATION REVIEW

Please carefully review the application. Verify that the application provides a technically accurate and complete description of the invention. Specifically, please verify that the application provides a technically accurate and sufficiently complete description to enable an average practitioner in the technological field of the invention to make and use the invention. In addition, please verify that the application sets forth what you believe to be the very best way of making and using the invention. For instance, any preferred materials or configurations must be set forth in the application. The application should also mention alternative ways of implementing the

From: BLAKELY, SOKOLOFF, TAYLOR & ZA (720)554-6180

8055 E. TUFTS AVE. 13TH. FLR

DENVER, CO, 80237

REVENUE BARCODE

**FedEx.**

To: Koteshwerrao Adusumilli (303)740-1980
Intel Corporation
13280 Evening Creek Drive
M/S EC2-201
San Diego, CA, 92128

SHIP DATE: 12OCT01
WEIGHT: 1 LBS

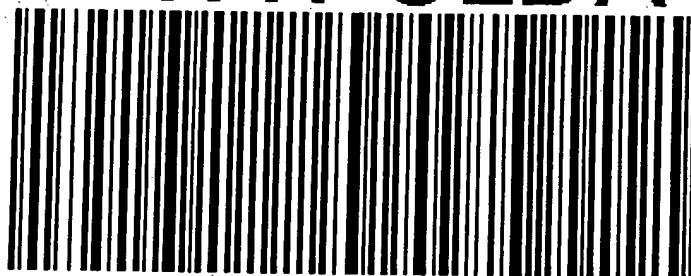
Ref: 42390P12318



DELIVERY ADDRESS BARCODE (FEDEX-EDR)

FedEx **PRIORITY OVERNIGHT**
TRK # 7901 8527 0891 5201

92128-CA-US

WW CLDA**MON**
AADeliver by:
15OCT01

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1. Use the "Print" feature from your browser to send this page to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping label pouch and affix it to your shipment so that the barcode portion of the label can be read.
4. To print a receipt of your shipment, please click on "Shipping History."

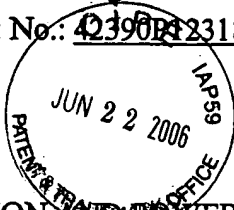
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APPENDIX G



PATENT

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION
(FOR INTEL CORPORATION PATENT APPLICATIONS)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below, next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled
"Selecting A Security Format Conversion For Wired and Wireless Devices"

the specification of which

 X is attached hereto.
 was filed on (MM/DD/YYYY) _____ as
United States Application Number _____
or PCT International Application Number _____
and was amended on (MM/DD/YYYY) _____.
(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above. I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d), of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority
Claimed

| | | | | |
|-----------------|------------------|---|------------|-----------|
| <u>(Number)</u> | <u>(Country)</u> | <u>(Foreign Filing Date - MM/DD/YYYY)</u> | <u>Yes</u> | <u>No</u> |
| <u>(Number)</u> | <u>(Country)</u> | <u>(Foreign Filing Date - MM/DD/YYYY)</u> | <u>Yes</u> | <u>No</u> |
| <u>(Number)</u> | <u>(Country)</u> | <u>(Foreign Filing Date - MM/DD/YYYY)</u> | <u>Yes</u> | <u>No</u> |

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below:

Application Number (Filing Date – MM/DD/YYYY)

Application Number (Filing Date – MM/DD/YYYY)

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Application Number (Filing Date – MM/DD/YYYY) Status -- patented,
pending, abandoned

Application Number (Filing Date – MM/DD/YYYY) Status -- patented,
pending, abandoned

I hereby appoint the persons listed on Appendix A hereto (which is incorporated by reference and a part of this document) as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Send correspondence to Brent E. Vecchia, BLAKELY, SOKOLOFF, TAYLOR &

(Name of Attorney or Agent)

ZAFMAN LLP, 12400 Wilshire Boulevard 7th Floor, Los Angeles, California 90025 and direct telephone calls to Brent E. Vecchia, (303) 740-1980.

(Name of Attorney or Agent)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole/First Inventor Koteschwerrao S. Adusumilli

Inventor's Signature  Date 10/15/2001

Residence San Diego, California Citizenship India
(City, State) (Country)

Post Office Address 11804 Creekbridge Place
San Diego, California 92128

Full Name of Second/Joint Inventor John B. Abjanic

Inventor's Signature  Date 10-15-2001

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